

CURRICULUM

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Revised Outlines for Chemistry 30 and Physics 30, 1960 - 61

CHEMISTRY 30

Information on Course Content and Laboratory Exercises

Authorized Text:

Chemistry For Secondary Schools: (Advanced Edition) Croal et al.

Course Content: The course consists of chapters 10-15 (review) and chapters 16-33 (new material). Owing to the length of the course Chapters 24, 25 and 26 are to be considered as material for reading and additional study if time permits. These chapters are NOT included in the work that will be covered in the Departmental Examinations.

Chapters 10-15 have been included in order to provide for the necessary review of the fundamental mathematics of chemistry. It is suggested that not longer than four (4) weeks be used for this review.

It will be recalled that Chapters 1-10 inclusive have become teachers' reference material for Science 10, and that Chapters 11-15 inclusive have become prescribed material for Science 20.

3. Demonstrations and Experiments:

The revised laboratory manual consists of twenty laboratory exercises, eleven of which include teacher demonstration material. Students will be expected to perform not fewer than fourteen laboratory exercises, including the obligatory exercises: 1, 2, 3, 4, 7, 13, 17, 18, 20, 23, 24, (1958 Laboratory Exercises in Chemistry 30).

4. Equipment:

A list of equipment, needed for the prescribed experiments, is contained in Laboratory Exercises.

PHYSICS 30

Information on Course Content and Laboratory Exercises

Authorized Text:

Elementary Physics: Littler

Course Content:

- The content selected from the text consists of materials on three topics: Mechanics, Heat and Electricity.
- The following portions of the text are used:
 - Mechanics: Chapters 1-9 inclusive.
 - Heat: Chapters 13-18 inclusive, and Chapter 21.
 - Electricity: Chapters 33, 34, 36 up to and including "Solenoid", 37, 38, and 39.
- In addition to the above, it will be very desirable to commence the course by teaching the Metric System of measurement (See Experiment 1, Laboratory Exercises.)

Demonstrations and Experiments:

Both of these devices should be regular procedures of teaching the course.

(a) Experiments:

The revised Laboratory Exercises consists of twenty experiments, from which students are expected to perform **not fewer than fourteen (14)**. The fourteen or more experiments may

be selected according to the type and quantities of equipment available. Not more than two (2) of the listed experiments may be omitted for each of the three topics.

Each of Experiments 1-11, inclusive, consists of two parts. In each case, **PART B** is stated as a follow-up problem to accompany **PART A**.

PART B is provided as extra work for the better students; its use is optional and at the discretion of the teacher.

(b) Demonstration:

In addition to experiments, described in Laboratory Exercises, the text provides ample suggestions for demonstrations.

4. Equipment:

A list of specific equipment needed for the prescribed experiments is contained in Laboratory Exercises.

- The authorized text was selected because of its precise descriptive and quantitative treatments of the selected topics.

These qualities of **precise statement** and **accurate calculation** will become, it is hoped, specific objectives in the teaching of this course.

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